

Claims

1. Heating element (10) for a filter press which can be supplied with a fluid heating medium and which has at least one heating plate (60, 80) extending over a plane and made of a heat-conducting material, which is attached to a base (20) of the heating element (10),

characterized by the fact that

the heating plate (60, 80) is attached to the base (20) exclusively in one adjacent partial area whereby the surface of the adjacent partial area is smaller than the remaining surface of the heating plate.

2. Heating element according to Claim 1, characterized by the fact that the expansion of the adjacent partial area at least in one of two directions which mount [aufspannen] the plane of the heating plate and are perpendicular to each other does not exceed 50% of the maximal expansion of the heating plate (60, 80) in this direction.

3. Heating element according to Claim 2, characterized by the fact that the adjacent area in both directions which mount [aufspannen] the plane of the heating plate and are perpendicular to each other, does not exceed 50% of the maximal expansion of the heating plate (60, 80) in each of the directions.

4. Heating element according to one of the Claims 1 to 3, characterized by the fact

that the heating element (10) has a central borehole (24) whereby at least one heating plate (60, 80) is attached to the base (20) only in one partial area located around the central borehole (24).

5. Heating element according to one of the Claims 1 through 3, characterized by the fact that the heating element (10) has a borehole in a corner area whereby at least one heating plate (60, 80) is fastened to the base (20) in only one partial area at the corner borehole.
6. Heating element according to one of the Claims 1 through 3 characterized by the fact that at least one heating plate (60, 80) is attached to the base (20) essentially only on one edge area of the heating plate (60, 80).
7. Heating element according to one of the previous claims, characterized by the fact that at least one heating plate (60, 80) extends in the direction of its plane only within the lateral dimensions of the base (20).
8. Heating element according to one of the Claims 1 through 6, characterized by the fact that at least one heating plate (60, 80) extends beyond the base (20) in the direction of its plane at least on one side.
9. Heating element according to one of the previous claims, characterized by the fact that the heating element (10) comprises two heating plates (60, 80).
10. Heating element according to Claim 9, characterized by the fact that at least one connector (100) is provided to hold the two heating plates (60, 80) in a fixed position relative to each other.
11. Heating element (10) for a filter press which can be supplied with a fluid heating medium, with a base (20) and two heating plates (60, 80) of a heat-conducting material and extending essentially over one plane, whereby the base (20) is positioned between the heating plates (60, 80),

characterized by the fact that

the heating plates (60, 80) are connected to each other by means of spacers external to the lateral expansion of the base (20), whereby the entire base (20) can move freely at least in one degree [*in einem Masse*] relative to the heating plates (60, 80) such that a different, thermally-determined expansion of the heating plates (60, 80) on the one hand and of the base (20) on the other is possible.

12. Heating element according to one of the previous claims, characterized by the fact that the heating plate (60, 80) has a thickness of at most 2 mm.
13. Heating element according to one of the previous claims, characterized by the fact that a seal between at a minimum one heating plate (60, 80) and the base (20) is circumferentially located at the most exterior edge area of the heating element (10).
14. Heating element according to one of the previous claims characterized by the fact that the minimally one heating plate (60, 80) is made of a metal or a heat-conducting synthetic or a combination of the two.
15. Heating element according to one of the previous claims characterized by the fact that the base (20) is made of a synthetic material.